

FIG. 1

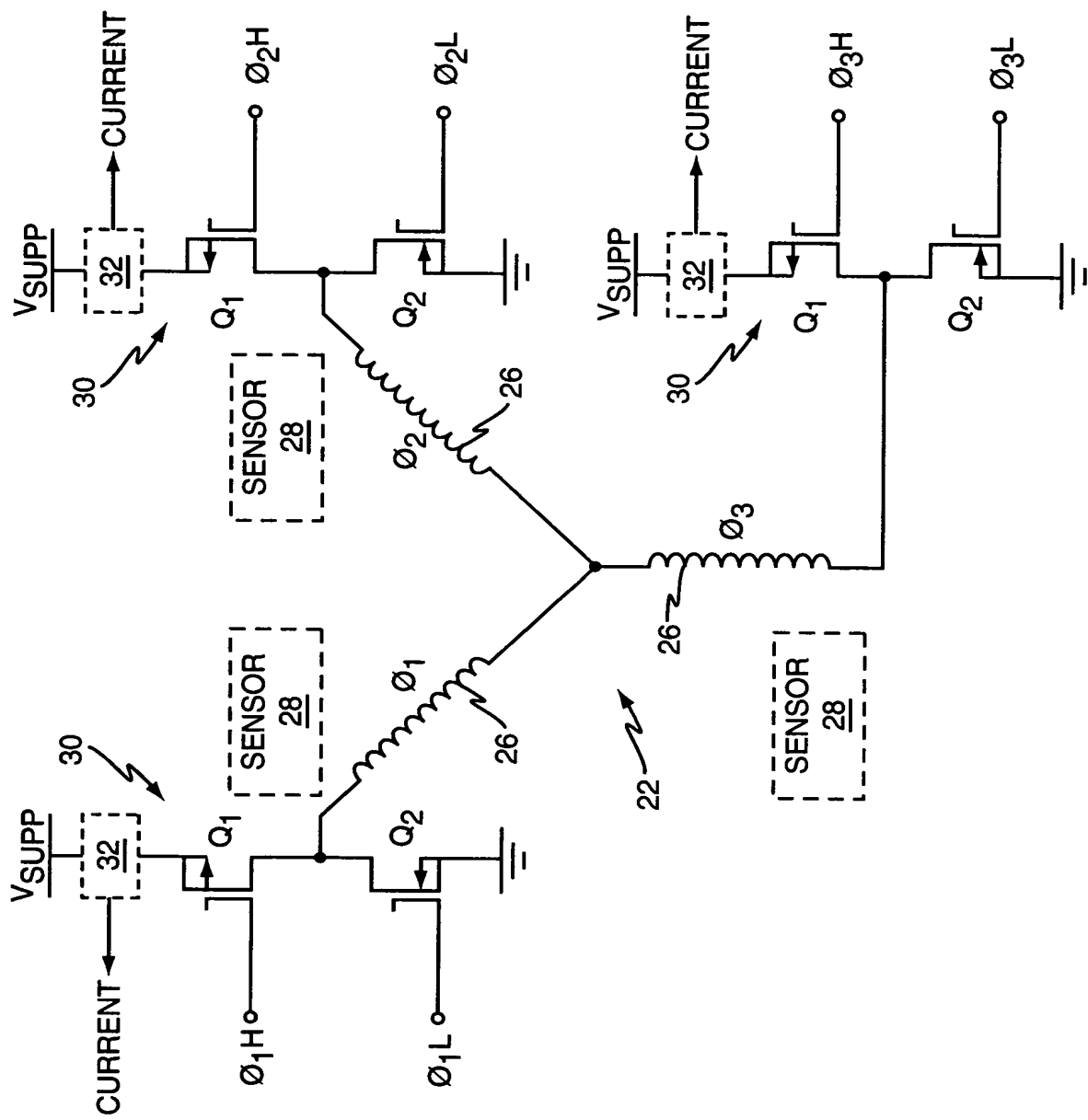


FIG. 2

STATE	DIR	POSITION STATE			COMMUTATION STATE SIGNALS											
					\varnothing_1		\varnothing_2		\varnothing_3		\varnothing_1		\varnothing_2		\varnothing_3	
		\varnothing_1	\varnothing_2	\varnothing_3	H	L	H	L	H	L	H	L	H	L	H	L
1	CCW	LO	HI	LO	ON	OFF	OFF	PWM	OFF	OFF	OFF	PWM	OFF	OFF	OFF	OFF
2	CCW	LO	HI	HI	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	PWM	PWM
3	CCW	LO	LO	HI	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	PWM	PWM
4	CCW	HI	LO	HI	OFF	PWM	PWM	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
5	CCW	HI	LO	LO	OFF	PWM	PWM	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF
6	CCW	HI	HI	LO	OFF	OFF	OFF	OFF	OFF	OFF	OFF	PWM	ON	OFF	OFF	OFF
1	CW	LO	LO	HI	OFF	OFF	OFF	PWM	OFF	OFF	OFF	PWM	ON	OFF	OFF	OFF
2	CW	LO	HI	HI	OFF	PWM	PWM	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
3	CW	LO	HI	LO	OFF	PWM	PWM	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
4	CW	HI	HI	LO	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	PWM	PWM
5	CW	HI	LO	LO	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	PWM	PWM
6	CW	HI	LO	HI	ON	OFF	OFF	OFF	OFF	OFF	OFF	PWM	OFF	OFF	OFF	OFF

STORED COMMUTATION TABLE (3Ø EMBODIMENT)

FIG. 3

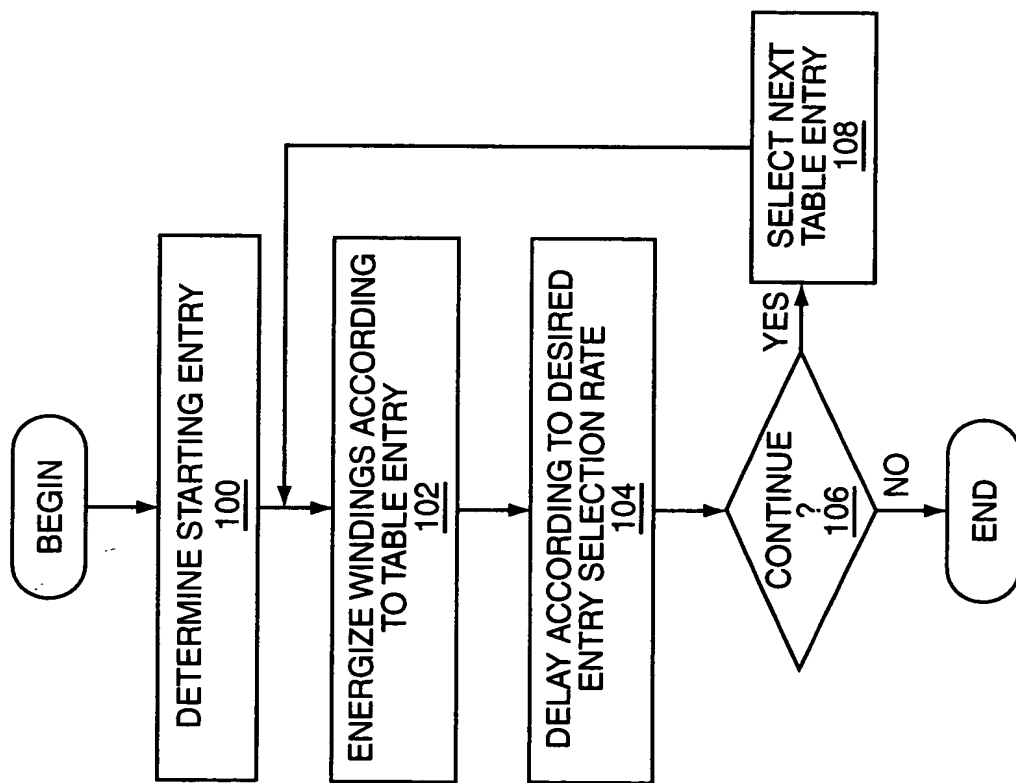


FIG. 4

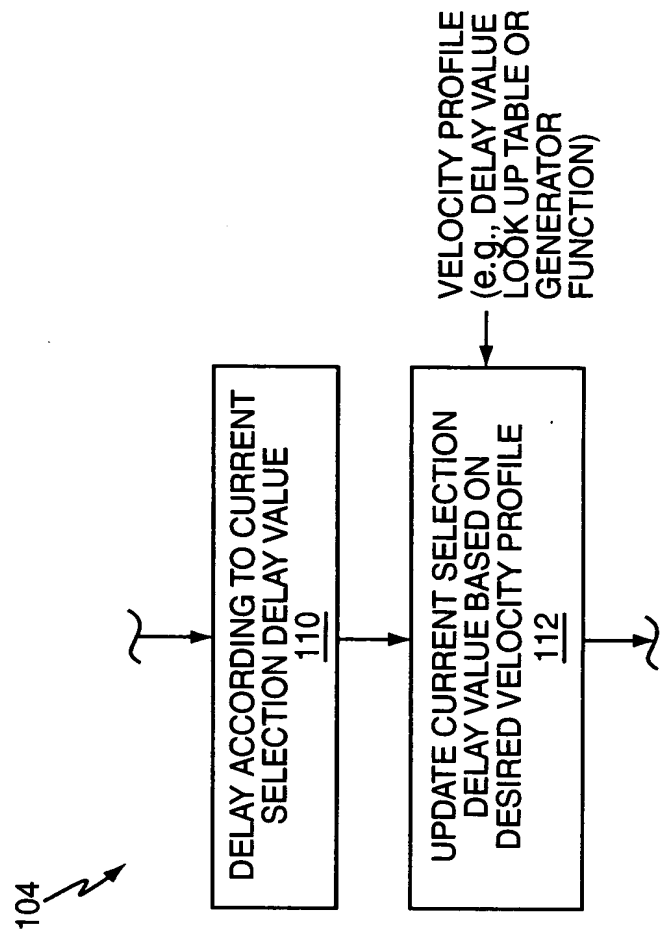


FIG. 5

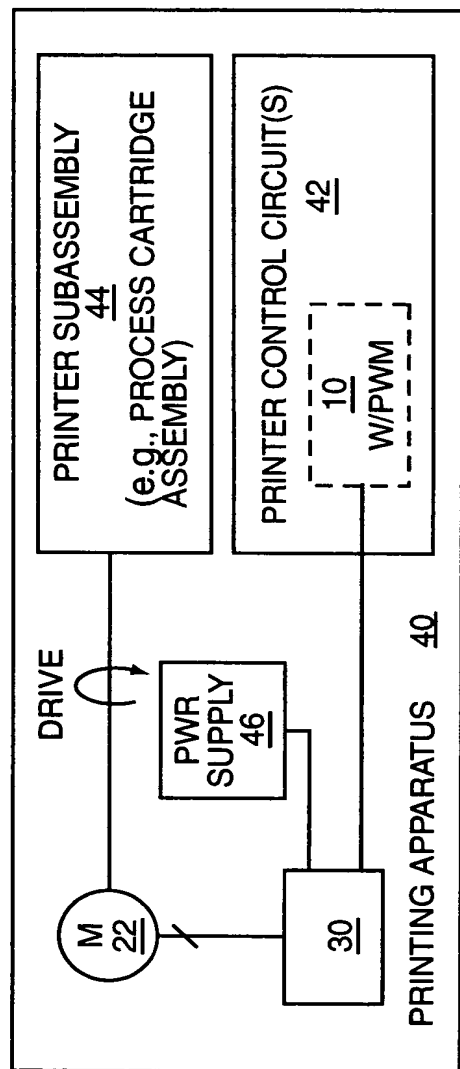


FIG. 6

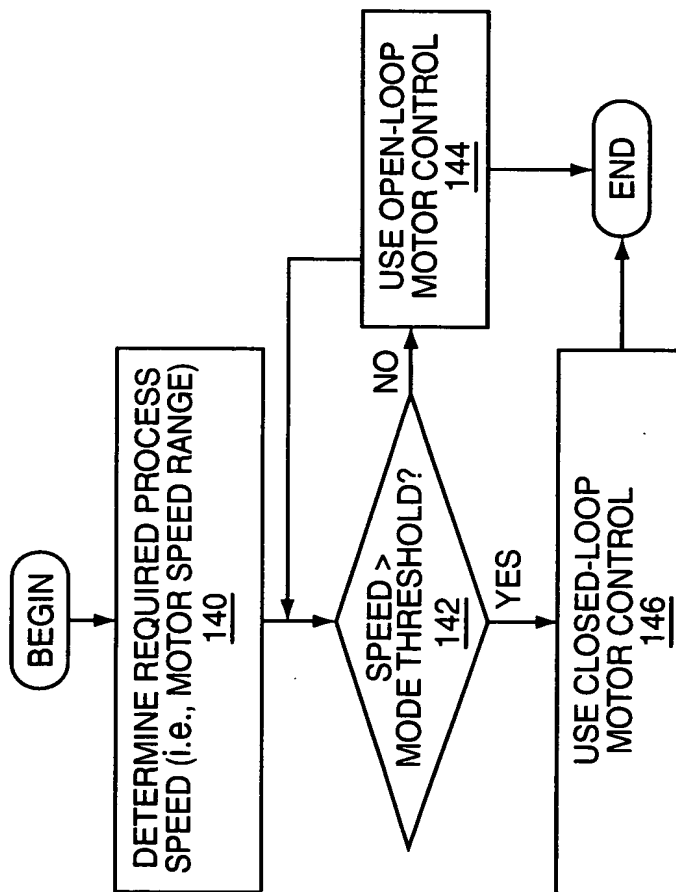


FIG. 7

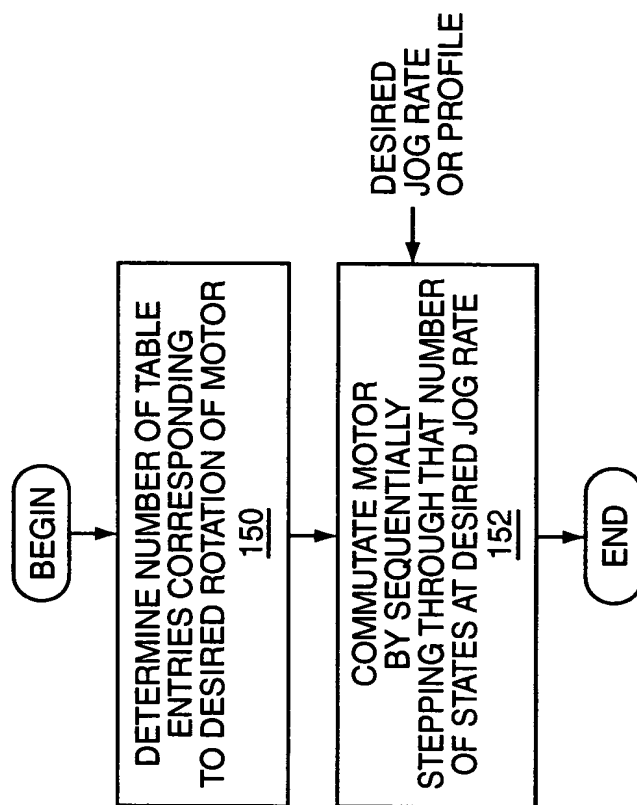


FIG. 8

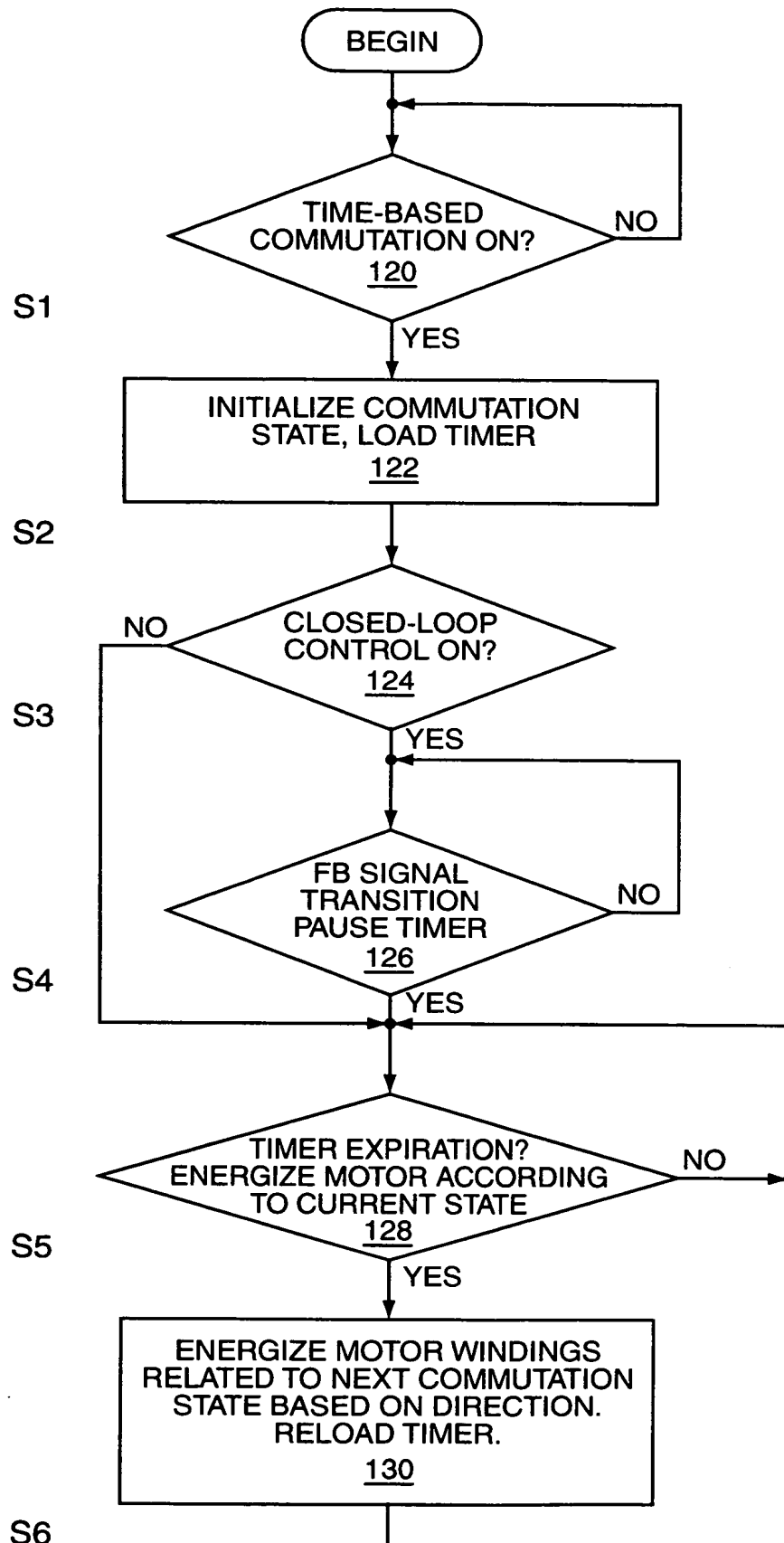


FIG. 9